

Arkema Group Rilsan® BESN P40 TL Nylon 11, Flexible Tubing Grade (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11, Flexible Tubing Grade

Material Notes:

Designation ISO 1874-PA11-P,EHL,22-003Flexible grade for tubes extrusion. Available color: black and natural. Light and heat stabilized.High flexibility. High impact strength. Very good chemical resistance. Ability to be processed at high speed.Example applications: Flexible tubes for air brake system approved by ISO 7628, DIN 73378 (PA11-PHL), NFR 12632, SAEJ 844.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BESN-P40-TL-Nylon-11-Flexible-Tubing-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
Melt Flow	3.1 g/10 min @Load 10.0 kg, Temperature 235 °C	3.1 g/10 min @Load 22.0 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.0 MPa	3920 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	32 %	32 %	50 mm/min
Tensile Modulus	0.320 GPa	46.4 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	0.890 J/cm ² @Temperature -30.0 °C	4.24 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C @Temperature 20.0 °C	61.1 µin/in-°F @Temperature 68.0 °F	
Melting Point	178 °C	352 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	

Thermal Properties Deflection Temperature at 1.8 MPa (264 psi)	Metric	English	Comments
Vicat Softening Point	140 °C	284 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.10 mm	@Thickness 0.122 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	
Surface Resistance	5.00e+11 ohm	5.00e+11 ohm	
Dielectric Strength	23.0 kV/mm	584 kV/in	

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